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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTO	R ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/720,766	11/24/2003	Paul H. Shelley	BO1 - 0287US	4916	
60483 LEE & HAYE		1/2007	EXA	EXAMINER	
421 W. RIVERSIDE AVE.			MOSS	MOSS, KERI A	
SUITE 500 SPOKANE, W	'A 99201	,	ART UNIT	PAPER NUMBER	
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			MAIL DATE	DELIVERY MODE	
			10/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/720,766	SHELLEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Keri A. Moss	1743				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status .						
Responsive to communication(s) filed on  2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This  3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) 1-163 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-163 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the contract of the contract	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/18/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

#### **DETAILED ACTION**

## Specification

1. The disclosure is objected to because of the following informalities: The use of multiple trademarks has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Applicant must amend the specification to describe in generic terms the characteristics of the trademarked products as they are known at the time the application was filed..

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 95, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145 and 149 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

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applicant regards as the invention. These claims contain trademarks. The relationship between a trademark and the product it identifies is sometimes indefinite, uncertain, and arbitrary. The formula or characteristics of the product may change from time to time and yet it may continue to be sold under the same trademark. In patent specifications, every element or ingredient of the product should be set forth in positive, exact, intelligible language, so that there will be no uncertainty as to what is meant. Arbitrary trademarks which are liable to mean different things at the pleasure of manufacturers do not constitute such language. Ex Parte Kattwinkle, 12 USPQ 11 (Bd. App. 1931).

Where the identification of a trademark is introduced by amendment, it must be restricted to the characteristics of the product known at the time the application was filed to avoid any question of new matter. MPEP § 608.01(v).

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-7, 10, 45, 55-62, 65, 100, 110-116, 119 and 154 are rejected under 35 U.S.C. 102(b) as being anticipated by Pearson et al (USP 5,406,082). Pearson discloses a non-destructive method for identifying a contaminant on a sample comprising transmitting an infrared beam onto a sample (abstract); detecting a reflected

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infrared beam reflected by the sample (abstract); determining a first infrared absorbance of the sample from the reflected infrared beam at a first wavenumber (column 4 line 40-column 5 line 8); determining a second infrared absorbance of the sample from the reflected infrared beam at a second wavenumber (column 4 line 40-column 5 line 8); and identifying the contaminant by correlating the first infrared absorbance and the second infrared absorbance to a reference sample (column 9 line 65-column 10 line 23). The first wavenumber and the second wavenumber correspond with an infrared spectrum of a contaminant(column 6 line 61-column 7 line 9). The infrared spectrometer includes an ellipsoidal mirror collector and an attenuated total reflectance collector (Fig. 1) and at least two narrow bandpass infrared filters (columns 9-10). The invention detects the presence of hydrocarbons such as oil or grease (column 7 lines 3-7), which are measured at 3150 nm to 3750 nm (column 4 line 40-column 5 line 8).

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 8-9, 11-44, 46-54, 63-64, 66-99, 101-109, 117-118, 120-153 and 155-163 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson et al, described supra. Pearson does not expressly teach identifying the specific contaminants at the specified wavelengths of these claims. Pearson does, however, teach that a variety of types of optical filters and different combinations of different types of filters may be used. Pearson also teaches that the filters are used in this invention to allow only the wavelengths from the hydrocarbon to pass through the filters (column 4 line 40-column 5 line 8). It would have been obvious to one of ordinary skill in the art to change the filters to allow different wavelengths to pass through if the analyte contaminant is not a hydrocarbon or does not emit light at the same wavelengths as hydrocarbons. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) teaches that

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optimization of a result-effective variable is ordinarily within the skill of one in the art. A result-effective variable is one that has well-known and expected results.

The selection of optical filters are result effective variables. Varying the filter by the wavelengths that pass through it has the well-known and expected result of allowing detection of different contaminants. Therefore, it would have been obvious to one of ordinary skill in the art to meet the filter's wavelength pass-through requirements of claimed contaminants by modifying Pearson et al. and selecting the filters that allow the wavelengths of the desired contaminant through to the detectors in order to identify whether the contaminant of question is present on the surface.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keri A. Moss whose telephone number is 571-272-8267.

The examiner can normally be reached on 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Keri A. Moss Examiner

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KAM 9/30/07

Jill Warden
Supervisory Patent Examiner

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